import numpy

age = [99,86,87,88,111,86,103,87,94,78,77,85,86]

x = numpy.mean(age)

print(x)

import numpy

age = [99,86,87,88,111,86,103,87,94,78,77,85,86]

x = numpy.median(age)

print(x)

import numpy

age = [99,86,87,88,86,103,87,94,78,77,85,86]

x = numpy.median(age)

print(x)

from scipy import stats

age = [99,86,87,88,111,86,103,87,94,78,77,85,86]

x = stats.mode(age)

print(x)

n\_num = [1, 2, 3, 4, 5]

n = len(n\_num)

get\_sum = sum(n\_num)

mean = get\_sum/n

print("Mean / Average is : " + str(mean))

n\_num = [1, 2, 3, 4, 5]

n = len(n\_num)

n\_num.sort()

if n % 2 == 0:

  median1 = n\_num[n//2]

  median2 = n\_num[n//2-1]

  median = (median1 + median2)/2

else:

  median = n\_num[n//2]

print("Median is : " + str(median))

from collections import Counter

n\_num = [1, 2, 3, 4, 5, 5]

n = len(n\_num)

data = Counter(n\_num)

get\_mode = dict(data)

mode = [k for k, v in get\_mode.items() if v == max(list(data.values()))]

if len(mode) == n:

  get\_mode = "No mode found"

else:

  get\_mode = "Mode is/are : " + ', '.join(map(str,mode))

print(get\_mode)

import pandas as pd

df = pd.DataFrame({'A' : ['a', 'b', 'c', 'c', 'a', 'b'],

'B' : [0, 1, 1, 0, 1, 0]}, dtype = "category")

df.dtypes

print(df)

print(df.groupby(['A']). count().reset\_index())

import pandas as pd

df = pd.DataFrame({'A' : ['a', 'b', 'c', 'c', 'a', 'b'],

'B' : [0, 1, 1, 0, 1, 0],

'C' : [7, 8, 9, 5, 3, 6]})

df['A'] = df['A'].astype('category')

print(df)

print(df.groupby(['A', 'B']).mean().reset\_index())

import pandas as pd

data = pd.read\_csv(r"/content/Iris - Iris.csv")

print('Iris-setosa')

setosa= data['Species'] == 'Iris-setosa'

print(data[setosa].describe())

print('\nIris-versicolor')

versicolor= data['Species'] == 'Iris-versicolor'

print(data[versicolor].describe())

print('\nIris-virginica')

virginica = data['Species'] == 'Iris-virginica'

print (data[virginica].describe())

data.describe()

data.info()